

Amendments to the Specification

Please replace the Abstract with the attached amended/substitute Abstract. The Abstract is revised as follows:

Method for In-vitro Testing of Active Substances, Device and Its Use

Summary:

ABSTRACT

A method for in-vitro testing of active substances on cells ~~comprises at least includes~~ the first steps ~~for of~~ providing a cell culture container with an interior chamber, ~~and~~ an inside wall, and ~~with~~ a first and second membrane system located in the interior chamber, ~~with a A~~ cell culture chamber ~~is formed~~ between the membrane systems and the inside wall of the interior ~~space~~ ~~chamber~~, ~~The method includes~~ providing a cell culture and cell culture medium in a cell culture chamber, supplying a fluid nutrient medium to the cell culture chamber, and carrying away metabolic products by means of the first membrane system, ~~adding at At least one gaseous medium is added~~ to the cell culture chamber by means of the second membrane system, ~~adding and~~ at least one active substance ~~is added~~ to the cell culture chamber, ~~with the supplying taking~~ ~~The supplying takes~~ place according to an adjusted active substance concentration-time curve and monitoring cell vitality. In addition, a device and the use of said device for testing the effect of idarubicin on the leukemic cell line CCRF CEM is described.

Please replace paragraph [0001] with the following rewritten paragraph:

[0001] Description:

BACKGROUND OF THE INVENTION

B2 1. Field of the Invention

Please replace paragraph [0002] with the following rewritten paragraph:

B3
[0002] The invention relates to a method for testing active substances on cells in-vitro, a device, and its use a process for employing the device.

Page 1, after paragraph [0002], please insert new paragraph [0002.1] as follows:

By
[0002.1] 2. Discussion of Related Art

Page 4, after paragraph [0010], please insert new paragraph [0010.1] as follows:

B5
[0010.1] SUMMARY OF THE INVENTION

Page 5, after paragraph [0013], please insert new paragraphs [0013.1] - [0013.8] as follows:

[0013.1] BRIEF DESCRIPTION OF DRAWING

[0013.2] Figure 1 is a flowchart of a device of the invention.

[0013.3] Figure 2a is a cross section through a modular active substance testing system with devices of the invention.

[0013.4] Figure 2b is a cross section through a modular active substance testing system with three stacked planes with devices of the invention. and

B6
[0013.5] Figure 3 is a top view of a modular active substance testing system comprising six devices of the invention.

[0013.6] Figure 4a is an active substance concentration-time curve shown as Profiles 1 to 3.

[0013.7] Figure 4b shows the vital cells in four different cell culture containers as presented (inoculum) and as harvested cells (cell harvest).

[0013.8] DESCRIPTION OF PREFERRED EMBODIMENTS

Please cancel paragraphs [0058] to [0063].

Top page 22, cancel " Method for In-vitro Testing of Active Substances, Device and Its Use"

Page 22, before claim 1, replace the paragraph "Claims:" with the following rewritten paragraph:

Claims What is claimed is: